

EXHIBIT 1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : HEALEY and DIRESTA
U.S. Serial No. : 09/890,116
Confirmation No.: 6037
Filed : November 20, 2001
Examiner : Donna A. Jagoe
Art Unit : 1614
For : ANTI-RESORPTIVE BONE CEMENTS AND ALLOGENEIC,
AUTOGRAFIC, AND XENOGRAFIC BONE GRAFTS

Law Offices of Albert Wai-Kit Chan, LLC
World Plaza, Suite 604
141-07 20th Avenue
Whitestone, New York 11357

April 11, 2007.

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

DECLARATION UNDER 37 C.F.R. §1.132

1. I, Gene R. Diresta, hereby declare that I am the Pre-Clinical Research Director of the Memorial Sloan Kettering Cancer Center's Orthopaedic Research Laboratory/Orthopaedic Surgery. [In that capacity, over an 8 year period I have personally performed and supervised research activities related to the formulation, *in vitro* and *in vivo* testing of antiresorptive bone cements for use in prosthetic joint replacement and bone reconstruction. To date, that work has been presented in three papers published in peer-reviewed journals and six peer-reviewed Orthopaedic meeting abstracts. As documented within my CV, my research experience spans a period of over 30 years

Applicant : HEALEY and DIRESTA
Serial No. : 09/890,116
Filed : November 20, 2001
Page : 2

focusing on biomedical and bioengineering disciplines. Further, I am a NYS Professional Chemical Engineer and American Board of Radiology Certified Medical Nuclear Physicist.

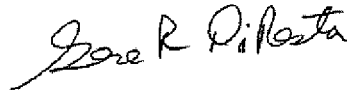
2. I am also an inventor of U.S. Patent Application No. 09/890,116, filed November 20, 2001, and I am familiar with the subject matter of the above-referenced patent application, which is drawn to compositions of anti-resorptive bone cement.
3. In a non-final Office Action mailed February 21, 2006, the Examiner rejected claims 77-117 and 122-125 under 35 U.S.C. §102(b) as anticipated by or, in the alternative, under 35 U.S.C. §103(a) as being obvious over WO 96/39107 (Merck Co.) and Sabokbar et al. (Ann. Rheum. Dis. 57:618 (1998)). In a Final Office Action mailed March 9, 2007, the Examiner rejected claims 77-115, 117, and 122-125 under 35 U.S.C. §102(b) as anticipated by or, in the alternative, under 35 U.S.C. §103(a) as being unpatentable over WO 96/39107 (Merck Co.) and Sabokbar et al. (Ann. Rheum. Dis. 57:618 (1998)), and further in view of Remington's Pharmaceutical Sciences, 15th Edition, 1975, pages 1569-1570.
4. I hereby submit that Sabokbar et al. and Merck Co. do not teach or suggest a bone cement composition wherein an anti-resorptive agent is present in an amount that does not compromise the bone cement's chemical or mechanical properties as claimed herein. As shown in Figure 1 presented herein, the bone cement composition of the present invention (designated as MSKCC) exhibits the same mechanical strength as compared to

Applicant : HEALEY and DIRESTA
Serial No. : 09/890,116
Filed : November 20, 2001
Page : 3

bone cement without any addition of anti-resorptive agent (designated as Drug Free SIMPLEX™). In contrast, the composition of Merck Co. formulated according to WO 96/39107 (designated as MERCK) has significantly decreased mechanical strength as compared to bone cement that does not contain anti-resorptive agent (comparing MERCK vs Drug Free SIMPLEX™). Hence, the addition of anti-resorptive agent according to WO 96/39107 (Merck Co.) actually compromises the performance of the bone cement.

5. I hereby declare that all statements made of my own knowledge are true and that all statements made on information and belief are believed to be true. I acknowledge that making willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001), and may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

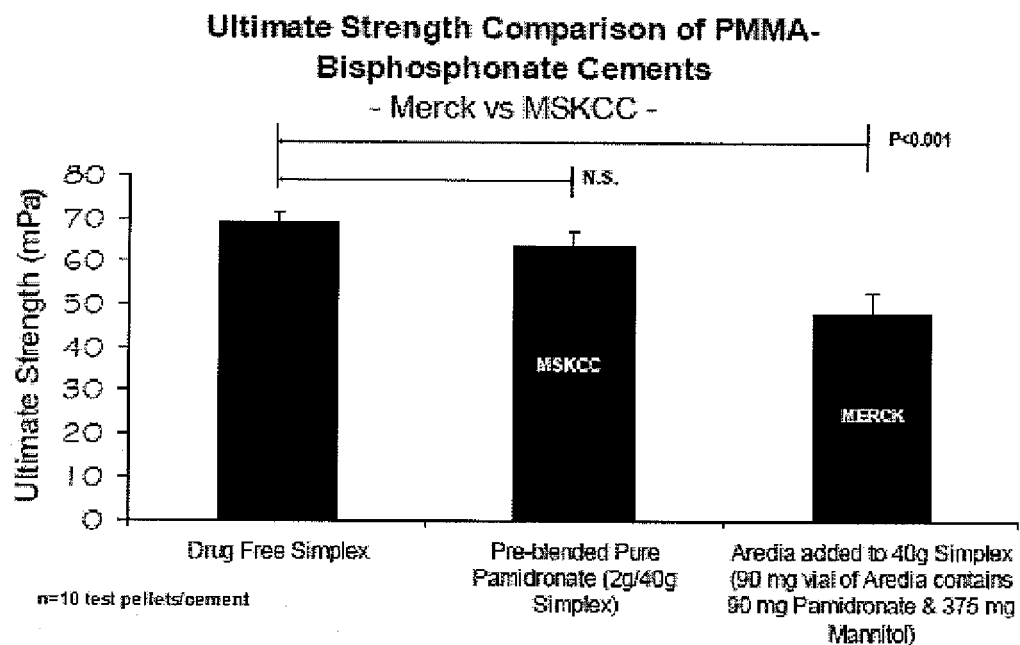


April 11, 2007

Dr. Gene R. DiResta

Date

Figure 1



Name: Gene R. DiResta, Ph.D., P.E.

Date of Birth: Jan. 13, 1948

Place of Birth: Yonkers, New York

Nationality: Italian-American

Office Address: Rockefeller Labs 409

Tel.# 212-639-7405

E-mail: direstag@mskcc.org

Fax# 212-794-4015

Home Address: 8 Hays Hill Road
Pleasantville, NY 10570-1717

Tel.# 914-769-4820

Licensed Professional Engineer: Chemical **Year:** 1991 **Place of Issue:** NY
068315

American Board Radiology - Medical Nuclear Physics Certification - 1998

Education:

College

<u>Dates</u>	<u>Degree</u>	<u>University</u>
1970	B.S. (Biochem)	Michigan State University East Lansing, Mich. 48823

Graduate Schools

<u>Dates</u>	<u>Degree</u>	<u>University</u>
1981	Ph.D. (BioEng)	Polytechnic Institute of New York 333 Jay Street Brooklyn, New York
1973	M.Eng. (Chem.E)	New York University Bronx, New York

Positions and Appointments:

1. MSKCC

June 91 to Present: Assistant Lab. Member

July 84 to June 91: Research Associate

2. Cornell University Medical College

Laboratory of Neurobiology

411 E 69th St.

New York, New York 10021

1981 to June 84: Research Associate

3. Novo Laboratories, Inc.

Wilton, Connecticut

1970 to 1977: Biochemical Engineer

Scientific and Medical Societies:

Society of Professional Engineers
Society of Nuclear Medicine

Grant Awards:

1. Musculoskeletal Transplant Foundation Grant - Jan 2006 -
"Bisphosphonates and Dye Impregnation of Large Structural Allografts" -
Co-Principal Investigator
2. Research Project Award -BioCrystal, Ltd April 2002 - "Development of a
High Pressure 2D Cell Culture Adapter"- Principal Investigator
3. OREF Grant - July 2000 "Characterization of Antiresorption Drug-PMMA
Cements" - Principal Investigator
4. Research Project Award - Stryker-Howmedica Osteonics October 1999.
"Evaluation of An Accelerated Loosening Model using a canine Cemented
Hip. Co-Principal Investigator & Project Director
5. NIH Grant # 1R01 CA78494-01A1 -July 1999 "Enhanced Therapy Response in
Osteosarcoma using an ALS" - Principal Investigator
6. SBIR Phase 1 Grant: Sept. 1989- "Positron Probe for Corneal Tumor
Bioassay" Co-Principal Investigator (Principal Investigator - RMD, Inc.)
7. MSKCC Institutional American Cancer Society Grant : April 1987-
"Nutritive Blood Flow in Healing Wounds: A Predictive Non-Invasive
Marker of Wound Healing": Co-Principal Investigator
8. MSKCC Institutional American Cancer Society Grant : April 1985-
"Measurement of Liver Parenchymal and Tumor Perfusion using In situ H2
Clearance" : Principal Investigator
9. Consortium Agreement between T.S.I., Inc. and MSKCC : May 1985
"Determination of Calibration Factors for the BPM403 LDV using a
Combination LDV-H2 Clearance Probe": Principal Investigator
10. Corporate Philanthropic Donation to pursue research on flow measuring
device at CUMC: 1981

Other Activities:

MSKCC Institutional Animal Care and Use Committee: 1995 - 1998

Tri-County Science Fair Judge: 1994 - Present

Languages:

Spoken: Italian, French

Written: French

Social Security #: 058-40-1476

Marital Status: Married

Spouse's Name: Ursula

Dependents #: 2

Publications: Gene R. DiResta, Ph.D., P.E.

I. Peer-Reviewed Papers

DiResta GR, Aiken SA, Brown HK, Bergman PJ, Hohenhaus A, Ehrhart EJ, Baer K, Healey JH. Use of an Artificial Lymphatic System during Carboplatin Infusion to improve Canine Osteosarcoma Blood Flow and Clinical Response. Ann. Surg. Onc. 2007 (in press)

DiResta GR, Brown H, Aiken SA, Doty S, Schneider R, Wright T and Healey JH. Use of an Absorbable Membrane to Position Biologically Inductive Materials in the Periprosthetic Space of Cemented Joints. J. Biomechanics 39(5):833-843, 2006

Carey K, Aiken SA, **DiResta GR**, Herr LG, Monette S. Radiographic and Clinical Changes of the Patellar Tendon after Tibial Plateau Leveling Osteotomy. Vet. Comp. Orthop. Traumatol. 4:235-242, 2005

DiResta GR, Nathan SS, Manoso M, Casas-Ganem J, Wyatt C, Kubo T, Boland P, Athanasian E, Miodownik J, Gorlick R and Healey JH. Population Dynamics of Cultured Human Cancer Cells are affected by the Elevated Tumor Pressures that exist in vivo. Annals. Biomed. Eng., 33(9):1270-80, 2005

Nathan SS, **DiResta GR**, Casas-Ganem JE, Hoang B, Sowers R, Yang R*, Huvos AG, Gorlick R* and Healey JH. Elevated Physiological Tumor Pressure Promotes Proliferation and Chemosensitivity in Human Osteosarcoma Cells. Clinical Cancer Research, 11(6):2389-97, 2005

DiResta GR, Aiken SA, Healey JH. Dog Osteogenic Sarcoma Microvasculature Visualized with A Spalteholz Technique. Clinical Orthopedics and Related Research, 426: 39-43, 2004

Shannon FJ, **DiResta GR**, Ottaviano D, Castro A, Healey J, Boland P. Biomechanical Analysis of Anterior PMMA Reconstruction following Total Spondylectomy for Metastatic Disease. Spine, 29(19): 2096-12, 2004

Healey JH, Shannon F, Boland P and **DiResta GR**. Polymethylmethacrylate for the Local Delivery of Anti-Neoplastic Agents. Clinical Orthopedics and Related Research (415 Suppl):S263-75, 2003

Zachos TA, Aiken SW, **DiResta GR**, Healey JH. Interstitial fluid pressure and blood flow in canine osteosarcoma and other tumors. Clinical Orthopedics and Related Research 385:230-6, 2001

DiResta GR, Lee J, Healey JH, Levchenko A, Larson SM and Arbit E. The "artificial lymphatic system: A new approach to reduce interstitial hypertension

and increase blood flow, pH and pO₂ in solid tumors. *Annals of Biomedical Engineering* 28(5), 543-555, 2000

DiResta GR, Lee J, Healey JH, Larson SM, and Arbit E. Enhancing the uptake of chemotherapeutic Drugs into Tumors using an Artificial Lymphatic System. *Annals of Biomedical Engineering* 28(5), 556-564, 2000

Cordiero PG, Santamaria E, Hu QY, **DiResta GR**. Neovascularization of Jejunal Free Flaps Transferred to the Neck - An experimental study in a large animal model. *Plastic & Reconstructive Surgery* 103(7): 1893-901, 1999

Mawlawi OR, **DiResta GR**, Willner P, Leonard EF, Larson SM. Characteristics of Head Movement With and Without Head Restraints during PET Imaging. *IEEE Trans. Biomedical Engineering* 47(2):566-72, 1998

Tjuvajev JG, Avril N, Oku TS, Sasajima T, Joshi R, Safer M, Beattie B, **DiResta GR**, Daghighian F, Augensen F, Koutcher J, Zweit J, Humm J, Larson SM, Blasberg R. Imaging herpes virus thymidine kinase gene transfer and expression by positron emission tomography. *Cancer Research* 58(19):4333-41, 1998

Veselis RA, Reinsel RA, Beattie B, Mawlawi O, Feschenko V, **DiResta GR**, Larson SM, Blasberg R. Midazolam Changes Cerebral Blood Flow In Discrete Brain Regions: An H₂¹⁵O Positron Emission Tomography Study. *Anesthesiology* 87(5):1106-17, 1997

Kramer K, Cheung NK, **DiResta GR**, et Al. Pharmacokinetics and Toxicology of I131 labeled Monoclonal Antibody Targeting Disialoganglioside GD2 in Non-human Primates. *J. Neuro-Onc.* 35(20):101-11, 1997

Reinsel R, Veselis RA, Feschenko VA, **DiResta GR**, Mawlawi O, Beattie B, Silbersweig D, Stern E, Blasberg R, Macapinlac H, Finn R, Goldsmith S, Larson, S. Target Detection and the Pre-frontal Cortex: A PET Scan Study of the P300 Event-Related Potential. *Anns. N.Y. Acad. Sciences* 769:393-397, Nov 1995

DiResta GR, Corbally MT, Sigurdson ER, Haumschild D, Ridge JA and Brennan MF. An Infra-red Laser Doppler Flowmeter in the determination of Small Bowel Perfusion following Ischemic Injury: Comparison with Clearance of Locally Generated Hydrogen and Fluorescein Angiography. *J. Pediatric Surgery*, 29(10):1352-1355, Oct. 1994

Conlon KC, Sclafani L, **DiResta GR** and Brennan M. Comparison of Transcutaneous Oximetry and Laser Doppler Flowmetry as Non-invasive Predictors of Wound Healing Following Excision of Extremity Soft-Tissue Sarcomas. *Surgery* 115(3): 335-40, Mar. 1994

DiResta GR, Lee J, Larson SM and Arbit E. Characterization of Neuroblastoma Xenograft in Rat Flank: I. Growth, Interstitial Fluid Pressure and Interstitial Fluid Velocity Distribution Profiles. *Microvascular Research* 1993; 46:158-177

Daghigian F, Pentlow KS, Larson SM, Graham MC, **DiResta GR**, et al. Development of a Method to Measure Kinetics of Radiolabeled Monoclonal Antibody in Human Tumor and Application to Microdosimetry: PET Studies of I-124 Labeled 3F8 MAb in Glioma. *European Journal of Nuclear Medicine* 1993; 20(5):402-409

Larson SM, Pentlow KS, Volkow ND, Wolf AP, Finn RD, Lambrecht RM, Graham MC, **DiResta GR**, et al. PET scanning of 124I-3F8 as a novel approach to tumor dosimetry during treatment for radioimmunotherapy in a child with neuroblastoma. *J. Nucl. Med.* 1992; 33:2020-2023

Sordillo P, **DiResta GR**, Fissekis J, et al. Tumor Imaging with Carbon -11 labeled Alpha Aminoisobutyric Acid(AIB) in Patients with Malignant Melanoma. *Am. J. of Physiologic Imaging* 1991; 6:172-175

DiResta GR, Lee J, Arbit E. Measurement of Tissue Specific Gravity Using Pycnometry. *J. of Neuroscience Meth.* 1991; 39:245-251

Shah N, Long C, Marx W, **DiResta GR**, Arbit E, Mascott C, Kallya K, and Bedford R. Cerebrovascular Response to CO₂ in Edematous Brain During Either Fentanyl or Isoflurane Anesthesia. *J Neurosurgical Anesthesiology* 1990; 2(1): p11-15

Conlon KC, Bading JR, **DiResta GR**, Corbally MT, Gelbard AS, Brennan MF. Validation of Transport Measurements in Skeletal Muscle with N-13 Amino Acids using a Rabbit Isolated Hindlimb Model. *Life Sciences* 1989; 44:847-859

Arbit E, **DiResta GR**, Bedford RF, Shah N and Galicich JH. Intraoperative Measurement of Cerebral and Tumor Blood Flow with Laser-Doppler Flowmetry. *Neurosurgery* 1989; 24,2:166-170

Bading JR, **DiResta GR**, Corbally MT, Conlon KC. Fiberglass Limb Phantoms: Fabrication and Use for Quantitative Scintigraphy. *Medical Physics* Mar/Apr 1988; 15(2): p215-220

DiResta GR, Kiel JW, Reidel GL and Shepherd AP. Hybrid Blood Flow Probe for Simultaneous H₂ Clearance and Laser-Doppler Velocimetry. *Am.J.Phys.* 1987; 253:G573-G581

Kiel JW, Riedel GL, **DiResta GR** and Shepherd AP. Gastric Mucosal Blood Flow Measured By Laser-Doppler Velocimetry. *Am.J.Phys.* 1985; 249:G539-G545

II. Symposium Proceedings

Arbit E, Lee J, **DiResta GR**. Interstitial Hypertension in Human Brain Tumors: Possible role in peritumoral edema formation. In: Nagai H, Kamiya K and Ishii S (Eds) Intracranial Pressure IX, Nagoya, Japan; Springer-Verlag 1994, 610-614

Arbit E, **DiResta GR**, Lee J, Volkert-Ratzinger R and Bral P. The Effect of Nimodipine on Cerebral Elastance and Edema in a Cryogenic Injury Model. In: Nagai H, Kamiya K and Ishii S (Eds) Intracranial Pressure IX, Nagoya, Japan; Springer-Verlag 1994, 504-509

Arbit E, **DiResta GR**, Wronski M, Lee J and Galicich JH. The Effect of Lazaroid on Cerebral Elastance and Edema in a Cryogenic Injury Model. In: Avezaat CJJ, van Eijndhoven, Maas AIR and Tans JThJ (Eds) Intracranial Pressure VIII, Berlin, Springer-Verlag, 1992, 108-111

Daghighian F, Pentlow KS, Larson SM, Graham MC, **DiResta GR**, et al. Application of PET and compartmental modeling in estimation of cellular level microdosimetry: PET studies of I124 labeled 3F8 MAb in human glioma. In: Watson EE, Schlafke-Stelson AT, eds. Fifth Int. Radiopharm. Dosim. Symp.(CONF-910529) 1992:396-413

Arbit E, **DiResta GR**, Wronski M, Lee J, and Galicich JH. Amino Steroids Reduce Brain Edema But Do Not Increase Brain Elastance In A Cryogenic Brain Injury Model. Eighth Intern. Symp on Intracranial Pressure, June 16-20, 1991, Rotterdam, The Netherlands (In Press)

Arbit E, Rubinstein A, **DiResta GR**, Lee J, Ali F, and Galicich JH. The Effect of the Aminosteriod U-78517G on Peritumoral Brain Oedema. Acta Neurochirurgica. Suppl. 51.(1990)158-59

DiResta GR, Lee J, Lau N, Ali F, Galicich JH, Arbit E. Measurement of Tissue Specific Gravity Using Pycnometry. Acta Neurochirurgica. Suppl. 51:34-36; 1990

Arbit E, **DiResta GR**, Khayata M, Lau N, Galicich JH. Lidocaine can reduce intracranial pressure associated with intracranial space-occupying lesions. In: Hoff JT, Betz AL (Eds) Intracranial Pressure VII, Berlin, Springer-Verlag, 1989, pp486-489

Khayata M, Arbit E, **DiResta GR**, Lau N, Galicich JH. ICP reduction by lidocaine: dose response curve and effect on CBF and EEG, in Hoff JT, Betz AL (Eds) Intracranial Pressure VII, Berlin, Springer-Verlag, 1989, pp490-496

III. Book Chapter(s)

DiResta GR and Arbit E. "Application of Laser Doppler Flowmetry in Neurosurgery" in Neurosurgical Clinics of North America: Cerebral Blood Flow. F.B. Meyer(ed). W.B. Saunders Company, Vol.7, No.4, October 96

IV. Abstracts

DiResta GR, Ehrhart EJ, Healey JH. Discordancy between Spalteholz Microvascular Imaging and Immunohistochemical Microvascular Density Measurements in Dog Osteosarcoma. Orthopaedic Research Society 53rd Ann. Mtg. San Diego, Ca., February 11-14, 2007, ABS# 995

Manoso MW, **DiResta GR**, Zanzonico P, Smith-Jones P, Maul DH, Finn R, Hussain SA, Morris CD, Healey JH. MicroSPECT-CT Imaging of Bisphosphonate Delivery to large-Segment Bone Allografts Orthopaedic Research Society 52nd Ann. Mtg. Chicago, Ill. March 19-22, 2006, ABS# 1734

DiResta GR, Greco SH, Tong WP, Brown H, Aiken SW, Bornmann WG, Yevdokimova A, Manoso MW and Healey JH. Distribution of Pamidronate Bound to Bone Following Local Delivery From Pamidronate-PMMA Bone Cement. Orthopaedic Research Society 47th Ann. Mtg Washington, DC, Feb. 20-23, 2005, ABS# 1391

DiResta GR and Healey JH. Mathematical Model and Experimental Validation of Local Delivery of Pamidronate to Bone Adjacent to Pamidronate - PMMA Bone Cement. Orthopaedic Research Society 47th Ann. Mtg Washington, DC, Feb. 20-23, 2005, ABS# 1382

Nathan SS, **DiResta GR**, et al. Simulated Osteosarcoma Fluid Pressures Replicate Chemotherapy-Induced Necrosis – Novel Insights into Systems Biology. Orthopaedic Research Society 47th Ann. Mtg Washington, DC, Feb. 20-23, 2005, ABS# 431

Manoso MW, Nathan SS, Casas-Ganem J, **DiResta GR**, Sowers R, Gorlick R and Healey JH. Physiologic Tumor Pressures Increase Proliferation of Metastatic Breast Carcinoma. Orthopaedic Research Society 47th Ann. Mtg Washington, DC, Feb. 20-23, 2005, ABS# 419

Nathan SS, **DiResta GR**, Casas-Ganem J, Hoang B, Mazza B, Sowers R Yang R, Gorlick R Healey JH. Elevated Fluid Pressure in Osteosarcoma enhances proliferation and chemosensitivity. AACR Meeting Orlando, Fl., March 31, 2004, Abs.# 4934

DiResta GR, Aiken SW, Healey JH Canine Osteogenic Sarcoma Microvasculature Visualized Using A Spalteholz Technique. Abs# 009, ISOLS Meeting, Rio de Janeiro, Brazil; Sept. 15-17, 2003

DiResta GR, Aiken SW, Healey JH. Canine Osteogenic Sarcoma Microvasculature Visualized Using A Spalteholz Technique: Influence on Chemo and Radiation Therapies. MusculoSkeletal Tumor Society Meeting, Chicago, Ill. May 1-3, 2003

DiResta GR, Aiken S, Brown H, Hohenhaus A, Bergman P, Rosenberg AZ, Healey JH. Effect of ALS Drainage and Carboplatin Infusion on Canine Osteosarcoma IFP & Blood Flow. Orthopaedic Research Society 48th Annual Meeting, Dallas, Texas Feb.10-13, 2002, Abs.# 755

Shannon FJ, **DiResta G**, Ottaviano D, Castro A, Healey JH, Boland PJ. Biomechanical Analysis of Anterior PMMA Reconstruction Following Total Spondylectomy for Metastatic Disease. AAOS 69th Annual Meeting, Feb. 13-17, 2002, Dallas, Texas

Shannon FJ, **DiResta G**, Ottaviano D, Castro A, Healey JH, Boland PJ. Biomechanical Analysis of Anterior PMMA Reconstruction Following Total Spondylectomy for Metastatic Disease. British Orthopaedic Ass. Annual Congress, Birmingham, UK Sept. 12-14, 2001

DiResta GR Aiken SW, Healey JH. Enhancing Drug Delivery to Solid Tumors using an "Artificial Lymphatic System" 11th Int. Symp. On Limb Salvage Birmingham, UK; October 10-12, 2001

Shannon F, **DiResta G**, Margolis R, Fredrick A, Healey J, Boland P. Mechanical Properties of a Dual Drug Cement after Prolonged Storage. Combined ORS meeting, Greece June 1-3, 2001

DiResta GR. Enhancing Drug Delivery to Solid Tumors using an "Artificial Lymphatic System" 221st ACS National Meeting, San Diego, CA. April 1 - 4, 2001, ID# 422971 – Invited presentation – [Withdrawn by GRD due to insufficient travel funds!]

Margolis R, Shannon F, **DiResta GR**, Tong W, Healey JH, Boland P. Solvent Effects on Doxorubicin Stability in Bone Cement Elution Studies. Accepted by Orthopaedic Research Society 47th Ann. Mtg San Francisco, CA, Feb. 25-28, 2001, ABS# 1058

Zachos TA, Chiaramonte D, **DiResta GR**, Hohenhaus AE, Aiken SW, Patnaik AK, Healey JH. Canine osteosarcoma: treatment with surgery, chemotherapy and/or radiation therapy, The Animal Medical Center, 1993-1998. Proceedings, 19th Annual Veterinary Cancer Society Conference. Nov. 13-19, 1999, Wood's Hole, MA.

Santamaria E, Cordeiro PG, Hu QY, **DiResta GR**. Neovascularization of Jejunal Free Flaps Transferred to the Neck - An experimental study in a large animal model. Annual Meeting of the Am. Soc. Rec. Micro-Surgery, Jan 17-20, 1999, Kamuela, Hi.

Zachos TA, **DiResta GR**, Healey JH, Aiken SW. Interstitial Fluid Pressure and Blood flow in Canine Appendicular Bone Tumors. Veterinary Cancer Society, 18th Annual Conference. Oct. 3-6, 1998, Estes Park, Colorado

Santamaria E, Cordeiro PG, Hu QY, **DiResta GR**. When is it safe to divide the pedicle of a jejunal free flap ? Meeting of the Am. Soc. Plastic & Recon. Surgery Meeting, Oct. 1998, Boston, Mass

Healey JH and **DiResta GR**. Measurement of Interstitial Fluid Pressure and Blood Flow in Human Bone Tumors and Adjacent Normal Tissue. Orthopedic Research Society, 44th Annual Meeting, New Orleans, March 16-19, 1998

Kramer K, Cheung NKV, **DiResta GR**, Humm J, Finn R, Rosenblum M, Arbit E, Nguyen H, Gonzalez G, Liu C, Yang YF, and Gillio A, Larson SM. Imaging and Therapeutic Potential of Intraventricular and Intrathecal 131I-labeled Monoclonal Antibodies(MAB): Pharmacokinetics and Toxicity in Non-Human Primates. May 18-21, 1996 ASCO Meeting

Reinsel R, Veselis RA, Feshchenko VA, **DiResta GR**, Mawlawi O, Beattie B, Blasberg R and Macapinlac H. Cerebral Blood Flow Correlates of the P300 Event Related Potential. Psychophysiology, Aug. 1995, Vol.32(Supp. 1): S62

Veselis R, Reinsel R, Feshchenko V, **DiResta GR**, Mawlawi O, Beattie B, Silbersweig D, Stern E, Blasberg R, Macapinlac H, Finn R, Goldsmith S, Larsen S. Cerebral Blood Flow(CBF) Changes During Midazolam Sedation Using O-15 Positron Emission Tomography(PET). Anesthesiology 1995; 83:A154.

Veselis R, Reinsel R, Feshchenko V, **DiResta GR**, Mawlawi O, Beattie B, Silbersweig D, Stern E, Blasberg R, Macapinlac H, Finn R, Goldsmith S, Larsen S. Selective Attention and the Prefrontal Cortex: A PET Scan Study of the P300 Event-Related Potential. Annals N.Y. Acad. Of Sciences, March 9, 1995

Arbit E, Lee J, **DiResta GR**. Direct Correlation Between Interstitial Fluid Pressure and Brain Edema Found in Human Brain Tumors In situ. AANS Annual Meeting, San Diego 1994

Arbit E, Lee J, **DiResta GR**. Interstitial Hypertension in Human Brain Tumors: Possible role in peritumoral edema formation. AANS Annual Meeting, San Diego 1994

Kostakoglu L, Finn R, **DiResta G**, Pentlow K, Lee J, Mawlawi O, Larson SM. Ga-66 Citrate: A novel tumor localization agent for PET. Am. Ass. Canc. Research Meeting 1994

Arbit E, Lee J, **DiResta GR**. Direct Correlation Between Interstitial Fluid Pressure and Brain Edema Found in Human Tumors In Situ. Ninth Int. Symp. ICP and Its Related Problems. May 16-19, 1994

Arbit E, **DiResta GR**, Lee J, Volkert-Ratzinger R, Bral P. The Effect of Nimodipine on Cerebral Elastance in a cryogenic Injury Model. Ninth Int. Symp. ICP and Its Related Problems. May 16-19, 1994

Arbit E, Lee J, **DiResta GR**. Interstitial Fluid Pressure in Human Brain Tumors In Situ. American Association of Neurological Surgeons Meeting, Oct. 1993(In Press)

Kairemo KJA, Sgouros G, Levchenko A, Kostakoglu L, Fisher DR, Scott AM, Daghighian F, Divgi CR, Mehta BM, Rosa E, Finn RD, **DiResta GR**, Whitlow M, Ljunggren K, Schlom J, Larson SM. Kinetics and Tumor Targeting by using a Single-Chain FV Derived from the TAG72 Monoclonal Antibody CC49: Considerations for labeling with Positron Emitters and Effects of Interstitial Fluid Pressure on Tumor Uptakes. Europ. Assoc. Nucl. Med. Congress, Oct. 1993

Choti MA, Lee J, **DiResta GR**, Sigurdson ER. Effect of Angiotensin II on Interstitial Hypertension in Experimental Hepatic Colorectal Metastases. Proceedings of A.A.C.R. Vol 34, Abs.#2086, p350, March 1993

DiResta GR, Macapinlac H, Scott A, Yeh S, Blasberg R, Pentlow K, Graham M, Beattie B, Daghighian F, Mawlawi O, Knott A, DeLaPaz R, Sgouros G, and Larson SM. Neurological Applications of Positron Emission Tomography at Memorial Sloan Kettering Cancer Center. Fourth Annual International PET Conference & Research Symposium; Oct.5-8, 1992; Washington, D.C.

DeLaPaz RL, Blasberg R, **DiResta GR**, Macapinlac H, Kalaigian J, Bernstein M, Zhang JJ, Yeh SDJ, Larson SM. Computerized Registration of MRI and PET Images of Intracranial Tumor. Society of Magnetic Resonance in Medicine, Aug. 14-19, 1992; p733.

Daghighian F, Pentlow KS, Larson SM, **DiResta GR**, et al. In vivo kinetics of radiolabeled antibody: PET studies of I124 labeled 3F8 MAB in human glioma. J. Nucl. Med. 1991, 32:1021

Daghighian F, Pentlow KS, Larson SM, **DiResta GR** et al. Development of a Method for Quantitative Measurement of the In Vivo Kinetics of Radiolabeled Antibody by Human Tumor: PET Studies of I-124 Labeled 3F8 Monoclonal Antibody in Human Glioma. J. of Cerebral Blood Flow and Metabolism. 11:Sup2, S397, 1991

Larson SM, Pentlow KS, Volkow N, Wolf A, Finn RD, Graham M, **DiResta GR**, Augenson F, Mawlawi O, Bendriem B, Yeh SDJ, Cheung K-KV. PET Scanning of

124I-3F8 as a Novel Method of Tumor Dosimetry During Treatment Planning for Radioimmunotherapy in a Child with Neuroblastoma. *Antib. Immunoconjug. Radiopharm* 1991;4:62 (Third Conference on Radioimmunodetection and Radioimmunotherapy of Cancer. Nov 15-17, 1990, Princeton, N.J.)

Jung R, Free K, Marshall W, **DiResta GR**, Edmondson R, Arbit E, Bedford R. Mannitol vs. Lidocaine For ICP Control Following Cryogenic Brain Injury In Rats. *Anesth. Analg.*: 70:S185; 1990

Shah NK, **DiResta GR**, Long C., Arbit E. and Bedford RF. Perioperative Intracranial Hypertension in Patients with Supratentorial Tumors: Role of CBF changes vs Importance of Mass Effect. *Intracranial Pressure VII.* pgs. 884-885, Eds.: J.T. Hoff and A.L. Betz, Springer-Verlag, Berlin Heidelberg 1989

Jung R, Marshall W, **DiResta GR**, Arbit E, Bedford R. ICP Control Following Cryogenic Brain Injury In Rats: Lidocaine vs. Mannitol. Submitted: *Am.Ass.Neurol.Surgeons.* 9/89

Conlon KC, Posner MC, **DiResta GR**, and Brennan MF. Non-Invasive Assessment of Wound Healing in Patients Following Extremity Soft Tissue Sarcoma Excision and Adjuvant Brachytherapy. *Amer. Fed. for Clin. Res., Eastern Section*, Oct. 1988

Arbit E, **DiResta GR**, Khayata M, Lau N, and Galicich JH. Reduction of Artificially Raised Intracranial Pressure By Lidocaine. June 1988 in *Intra-Cranial Pressure Management*

Arbit E, Khayata M, **DiResta GR**, Lau N, Galicich JH. Lidocaine Infusion Reduces ICP Associated with a Mass Lesion. 7th Int. Symp. on ICP and Brain Injury, June 19-23, 1988 Ann Arbor, Mich.

Khayata M, Arbit E, **DiResta GR**, Lau N, Galicich JH. ICP Reduction by Lidocaine: Dose Response Curve and effect on CBF and EEG. 7th Int. Symp. on ICP and Brain Injury, June 19-23, 1988 Ann Arbor, Mich.

Conlon KC, Posner MC, **DiResta GR**, and Brennan MF. "Non-Invasive Assessment of Wound Healing in Patients following Extremity Soft Tissue Sarcoma Excision and Adjuvant Brachytherapy" Submitted to American. Fed. Clin. Res. meeting, Oct 1988

Shah NK, **DiResta GR**, Arbit E, Bedford RF "Regional Cerebral Blood Flow in Malignant Supratentorial Tumors vs Normal Brain", *Anesthesia and Analgesia*, S75, Feb. 1988

Sordillo PP, **DiResta GR**, Conti PS, et al." Imaging Studies using C-11 Alpha Aminoisobutyric Acid(AIB) in Patients with Malignant Melanoma". Society of Nuclear Medicine, 35th Meeting, June 14-17, 1988 Abs.# 00200

DiResta GR, Arbit E, Lau N, Galicich JH "Measurement of Regional Cerebral Blood Flow using a Combination Laser Doppler-Hydrogen Clearance Probe" International Conference on Cerebral Blood Flow and Metabolism, Montreal, Canada, June 20-25,1987, Abs.# 0833

DiResta GR, Arbit E, Bedford RF, "Application of Laser Doppler Velocimetry to the Measurement of Brain Tumor Blood Flow", Memorial Sloan-Kettering Cancer Center Research Colloquium, June 17, 1987, p20

Corbally MT, **DiResta GR**, Sigurdson E, Brennan MF "Local Hydrogen Clearance and Fluorescein Angiography in the Determination of Small Bowel Viability" British Assoc. Pediatric Surgery-Dublin Meeting, July 22-24, 1987

DiResta GR, Corbally MT, Sigurdson E, Haumschild DJ, Ridge JA "Application of a Combination Laser Doppler Velocimeter-Local Hydrogen Clearance Probe to Determine Small Bowel Blood Flow" Microcirculation, an Update;Proceedings of the Fourth World Conference for Microcirculation, Tokyo, Japan, July 26-30, 1987, Vol.1, p381-2

Starnes HF, **DiResta GR**, Stone MD, Conti PS, Bading JR, Jeevanandam M, Brennan MF "Altered Protein Metabolism in Cancer Patients with Jaundice", Gastroenterology, Vol.92, 1987, p1783

Bading JR, Corbally MT, Fissekis JD, **DiResta GR**, Brennan MF "Effect of Starvation on C-11 Alpha-Aminoisobutyric Acid (AIB) in Skeletal Muscle" J. Nuclear Medicine, V.28, N.4, April 87, Abs#. 390

Shepherd AP, **DiResta GR**, Kiel JW and Reidel GL "Hybrid Blood Flow Probe for Simultaneous H2 Clearance and Laser Doppler Velocimetry" Proceedings of XXX Congress of International Union of Physiological Sciences. Vancouver, British Columbia, Canada, July 1986

Rosenspire KC, Nieves E, Gelbard AS, Filc-Dericco S, Corbally MT, and **DiResta GR**, "L-[N-13]Tyrosine: Enzymatic Synthesis and Biodistribution in Tumor-Bearing Animals" SNM Abs. # 3061, June 1986

DiResta GR, "A New Method for Measurement of Tissue Perfusion: Hydrogen Clamping", FASEB Abs.#3686, April 84

IV. Patents:

Granted

1. "Apparatus for Performing Tissue Perfusion Measurements"
Issued: May 1, 1984 Number: 4,445,515
2. "Process and Device To Reduce Interstitial Fluid Pressure In Tissue"
Issued: Jan. 16, 1996 Number: 5,484,399
3. "ALS - Electroporation Drug Delivery Process and Device"
Issued: April 15, 2003 Number: 6,547,777

Pending:

1. Anti-resorption Agent-PMMA Bone Cement" – US Patent Pending / Issued in Australia Jan. 6, 2005 Number: 776555; (Submitted Nov. 20, 2001)
2. "Apparatus for Growing Cells under Variable Hydrostatic Pressure" -
Pending Initial submission: March 2002 / Complete submission: March 2003

V. Other Publications/Presentations

Interview:

"Software aids fight against cancer" – Design News – June 9, 1997

"ChEs Target Cancerous Cells in Advanced Drug Delivery" by Claudia M. Caruana, Associate Editor: Chemical Engineering Progress, vol. 91, no.11 November 1995, p13-20

Ph.D. Doctoral Thesis - Bioengineering - June 1982

"The Measurement of Tissue Perfusion using a H₂-Clamp Technique"